

CPCCSIL4001

Supervise and manage work
with products and materials
generating respirable
crystalline silica (Release 1)



Assessment

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Assessment Cover Sheet

Candidate Details		
Name	Phone	Email
Trainer/Assessor Details		
Name	Phone	Email
Assessment Details		
Time/Date	Location	Assessment Task/Setting

Assessment Result

Unit of Competency	Result	Feedback
CPCSIL4001 - Supervise and manage work with products and materials generating respirable crystalline silica	Competent <input type="checkbox"/> Not Yet Competent <input type="checkbox"/>	

Knowledge Evidence

Question 1.

Explain the hierarchy of control measures, including:

- Elimination
- Substitution
- Isolation
- Engineering controls
- Administrative controls
- Personal protective equipment (PPE)/RPE

Your Answer:

Question 2.

List the health risks working with products and materials containing CS.

Your Answer:

Question 3.

List the health effects from inhaling respirable crystalline silica (RCS).

Your Answer:

Question 4.

Explain each of the following products that contain CS:

- Engineered stone
- Concrete
- Mortar
- Bricks
- Pavers
- Tiles
- Natural stone
- Cement sheeting
- Aerated concrete

Your Answer:

Question 5.

Explain the work health and safety (WHS) regulations as they apply to working with CS.

Your Answer:

Question 6.

Explain Australian Standards AS/NZ 1715:2009 Selection, use and maintenance of respiratory protective equipment and AS/NZ 1716:2012 Respiratory protective devices, or their equivalent.

Your Answer:

Question 7.

List employer responsibilities and duty of care requirements for the following:

- Consultation and communication processes
- WHS regulations and health monitoring requirements
- Personal exposure monitoring

Your Answer:

Question 8.

Explain each of the following safety information documents:

- Codes of practice
- Guidance notes
- Job safety analysis (JSA)
- Safety data sheets (SDS)
- Safe work method statement (SWMS)

Your Answer:

Question 9.

List types of silicosis based on frequency of exposure and level of dust.

Your Answer:

Question 10.

List examples of industries impacted by potential exposure to RCS.

Your Answer:

Question 11.

Explain the compliant use of a range of plant, tools and equipment used with products and materials containing high silica content.

Your Answer:

Question 12.

Explain the maintenance requirements on respirators for RCS and for power tools, plant and equipment.

Your Answer:

Question 13.

Explain the maintenance and storage requirements for RPE.

Your Answer:

Question 14.

Explain RPE fit testing and fit checking requirements

Your Answer:

Question 15.

Explain manufacturer requirements for products and materials generating respirable crystalline silica.

Your Answer:

Question 16.

What training should be provided to workers for RPE use, maintenance and storage?

Your Answer:

Question 17.

Explain each of the following housekeeping methods:

- Regular cleaning practices
- Wearing RPE during cleaning
- Avoid sweeping of dust
- M to H Class vacuum cleaners
- Wet wiping
- Use of water filtration

Your Answer:

Question 18.

List dust control measures that can be used to reduce the risk of RCS.

Your Answer:

Question 19.

Explain each of the following engineering controls, including maintenance:

- Dust capture extraction
- Wet cutting methods and water suppression
- Respiratory protection
- Local exhaust ventilation

Your Answer:

Question 20.

Explain each of the following activities generating RCS health hazards and risks:

- Cutting
- Grinding
- Polishing
- Drilling
- Demolishing
- Excavating

Your Answer:

Question 21.

List examples of WHS policies and procedures relevant to managing the risks of CS.

Your Answer:

Question 22.

What is a notifiable incident and how should they be reported?

Your Answer:

Question 23.

Explain WHS recording, reporting and audit requirements of records relating to work processes with a risk of exposure to RCS.

Your Answer:

Question 24.

Explain environmental guidelines regarding waste disposal of slurry mixtures and dust containment strategies

Your Answer:

Question 25.

What contingency plans should be developed in the event of the failure of primary risk controls or work procedures?

Your Answer:

Knowledge Evidence Checklist

Assessor Evidence Guide. Evidence should demonstrate the candidate has knowledge of the following.

Evidence Criteria	Assessment Evidence Gathered	Satisfactory	Not Yet Satisfactory
To be competent in this unit, a candidate must demonstrate knowledge of:		<input type="checkbox"/>	<input type="checkbox"/>
hierarchy of control measures:		<input type="checkbox"/>	<input type="checkbox"/>
elimination		<input type="checkbox"/>	<input type="checkbox"/>
substitution		<input type="checkbox"/>	<input type="checkbox"/>
isolation		<input type="checkbox"/>	<input type="checkbox"/>
engineering controls		<input type="checkbox"/>	<input type="checkbox"/>
administrative controls		<input type="checkbox"/>	<input type="checkbox"/>
personal protective equipment (PPE)/RPE		<input type="checkbox"/>	<input type="checkbox"/>
health risks working with products and materials containing CS		<input type="checkbox"/>	<input type="checkbox"/>
health effects from inhaling respirable crystalline silica (RCS)		<input type="checkbox"/>	<input type="checkbox"/>
products containing CS, such as:		<input type="checkbox"/>	<input type="checkbox"/>
engineered stone		<input type="checkbox"/>	<input type="checkbox"/>
concrete		<input type="checkbox"/>	<input type="checkbox"/>
mortar		<input type="checkbox"/>	<input type="checkbox"/>
bricks		<input type="checkbox"/>	<input type="checkbox"/>
pavers		<input type="checkbox"/>	<input type="checkbox"/>
tiles		<input type="checkbox"/>	<input type="checkbox"/>
natural stone		<input type="checkbox"/>	<input type="checkbox"/>
cement sheeting		<input type="checkbox"/>	<input type="checkbox"/>
aerated concrete		<input type="checkbox"/>	<input type="checkbox"/>
work health and safety (WHS) regulations		<input type="checkbox"/>	<input type="checkbox"/>
Australian Standards AS/NZ 1715:2009 Selection, use and maintenance of respiratory protective equipment and AS/NZ 1716:2012 Respiratory protective devices, or their equivalent		<input type="checkbox"/>	<input type="checkbox"/>
employer responsibilities and duty of care requirements:		<input type="checkbox"/>	<input type="checkbox"/>
consultation and communication processes		<input type="checkbox"/>	<input type="checkbox"/>
WHS regulations and health monitoring requirements		<input type="checkbox"/>	<input type="checkbox"/>
personal exposure monitoring		<input type="checkbox"/>	<input type="checkbox"/>
safety information documents:		<input type="checkbox"/>	<input type="checkbox"/>
codes of practice		<input type="checkbox"/>	<input type="checkbox"/>
guidance notes		<input type="checkbox"/>	<input type="checkbox"/>
job safety analysis (JSA)		<input type="checkbox"/>	<input type="checkbox"/>
safety data sheets (SDS)		<input type="checkbox"/>	<input type="checkbox"/>

safe work method statement (SWMS)		<input type="checkbox"/>	<input type="checkbox"/>
types of silicosis based on frequency of exposure and level of dust		<input type="checkbox"/>	<input type="checkbox"/>
industries impacted by potential exposure to RCS		<input type="checkbox"/>	<input type="checkbox"/>
compliant use of a range of plant, tools and equipment used with products and materials containing high silica content		<input type="checkbox"/>	<input type="checkbox"/>
maintenance requirements on respirators for RCS and for power tools, plant and equipment		<input type="checkbox"/>	<input type="checkbox"/>
maintenance and storage requirements for RPE		<input type="checkbox"/>	<input type="checkbox"/>
RPE fit testing and fit checking requirements		<input type="checkbox"/>	<input type="checkbox"/>
manufacturer requirements		<input type="checkbox"/>	<input type="checkbox"/>
training for RPE use, maintenance and storage		<input type="checkbox"/>	<input type="checkbox"/>
housekeeping methods:		<input type="checkbox"/>	<input type="checkbox"/>
regular cleaning practices		<input type="checkbox"/>	<input type="checkbox"/>
wearing RPE during cleaning		<input type="checkbox"/>	<input type="checkbox"/>
avoid sweeping of dust		<input type="checkbox"/>	<input type="checkbox"/>
M to H Class vacuum cleaners		<input type="checkbox"/>	<input type="checkbox"/>
wet wiping		<input type="checkbox"/>	<input type="checkbox"/>
use of water filtration		<input type="checkbox"/>	<input type="checkbox"/>
dust control measures		<input type="checkbox"/>	<input type="checkbox"/>
engineering controls, including maintenance:		<input type="checkbox"/>	<input type="checkbox"/>
dust capture extraction		<input type="checkbox"/>	<input type="checkbox"/>
wet cutting methods and water suppression		<input type="checkbox"/>	<input type="checkbox"/>
respiratory protection		<input type="checkbox"/>	<input type="checkbox"/>
local exhaust ventilation		<input type="checkbox"/>	<input type="checkbox"/>
activities generating RCS health hazards and risks:		<input type="checkbox"/>	<input type="checkbox"/>
cutting		<input type="checkbox"/>	<input type="checkbox"/>
grinding		<input type="checkbox"/>	<input type="checkbox"/>
polishing		<input type="checkbox"/>	<input type="checkbox"/>
drilling		<input type="checkbox"/>	<input type="checkbox"/>
demolishing		<input type="checkbox"/>	<input type="checkbox"/>
excavating		<input type="checkbox"/>	<input type="checkbox"/>
WHS policies and procedures		<input type="checkbox"/>	<input type="checkbox"/>
reporting notifiable incidents		<input type="checkbox"/>	<input type="checkbox"/>
WHS recording, reporting and audit requirements of records		<input type="checkbox"/>	<input type="checkbox"/>
environmental guidelines regarding waste disposal of slurry mixtures and dust containment strategies		<input type="checkbox"/>	<input type="checkbox"/>
contingency planning.		<input type="checkbox"/>	<input type="checkbox"/>

Knowledge Evidence Assessment Outcome

Unit of Competency	Knowledge Evidence Outcome	Feedback
CPCSIL4001 - Supervise and manage work with products and materials generating respirable crystalline silica	Satisfactory <input type="checkbox"/> Not Yet Satisfactory <input type="checkbox"/>	

Elements and Performance Criteria

Element 1. Plan and prepare for work.

Assessment Task: Plan and prepare for work.

Scenario:

You are a supervisor on a construction project that includes demolition of an existing structure dating from the 1950s and construction of a new commercial retail development. In addition to your regular supervisory duties, you must also supervise and manage your workers while they work with products and materials that generate respirable crystalline silica (RCS).

You must carry out the following in relation to the project to ensure the safety of personnel and compliance with relevant WHS and other applicable legislation.

- Planning and preparing for work.
- Conducting workplace briefings and consultation with workers and others.
- Implementing safety controls and workplace and legislative requirements.
- Managing worksite operations.
- Overseeing clean-up, maintenance and storage of work areas, plant and equipment.
- Reviewing workplace operations as part of continuous improvement processes.

Assessment Instructions:

1.1. Check work or design requirements and workplace environment to determine level of exposure to RCS from work activity, so far as reasonably practical, in accordance with WHS procedures and manufacturer instructions.

- Review demolition and construction plans to identify activities generating RCS.
- Inspect the worksite for existing RCS sources, such as concrete, bricks, and cement sheeting.
- Assess the extent of dust-generating tasks and proximity of workers to these activities.
- Evaluate manufacturer instructions for tools and materials for RCS risks.
- Document identified exposure risks in line with WHS procedures.

1.2. Check if air monitoring is required and if so, arrange air monitoring processes in accordance with WHS procedures and regulations.

- Determine if dust-generating tasks may exceed exposure standards.
- Review previous air monitoring records relevant to similar tasks.
- Engage a competent occupational hygienist for air monitoring if uncertainty exists.
- Schedule air monitoring before starting high-risk tasks and throughout the project duration.
- Ensure monitoring results are recorded and retained for 30 years as per WHS requirements.

1.3. Identify WHS requirements for working with products containing CS, including codes of practice, guidance notes and safety data sheets (SDS), where available.

- Access relevant codes of practice for RCS management in construction.
- Review SDS for materials containing crystalline silica to understand hazards and controls.
- Consult WHS guidance notes regarding safe handling procedures.

- Identify mandatory PPE and RPE requirements specified in these documents.
- Brief workers on applicable WHS obligations and safe work methods.

1.4. Check if relevant safety documentation is available and, if not, put processes in place for its development.

- Confirm availability of job safety analyses (JSA), safe work method statements (SWMS), and risk assessments.
- Develop or update safety documentation based on identified RCS risks.
- Ensure documentation outlines appropriate control measures in line with WHS legislation.
- Review and approve documentation prior to commencing work.
- Distribute approved documents to all workers and relevant stakeholders.

1.5. Check SDS or relevant technical data sheets to identify products and materials containing CS to meet work specifications and requirements.

- Cross-reference SDS information with project material lists.
- Confirm CS content and related handling precautions.
- Identify tasks that may involve cutting, grinding, or drilling CS-containing materials.
- Plan control measures based on SDS recommendations.
- Ensure SDS accessibility for all workers handling these materials.

1.6. Plan to implement and manage appropriate combination of controls, so far as reasonably practical, in accordance with WHS procedures.

- Apply elimination or substitution of high-CS-content materials where feasible.
- Implement engineering controls such as local exhaust ventilation and wet cutting.
- Establish administrative controls like restricted access and shift rotations.
- Provide RPE in line with AS/NZS 1715 and 1716 standards.
- Document and communicate control strategies to all relevant personnel.

1.7. Check serviceability of relevant plant, tools, equipment, personal protective equipment (PPE) and respiratory protective equipment (RPE) for planned workers, to perform specified work, in accordance with WHS policy and procedures.

- Conduct pre-use inspections on dust extraction systems and water suppression tools.
- Verify RPE fit testing and availability for all personnel.
- Assess maintenance records for plant and equipment related to dust control.
- Confirm compliance of PPE and RPE with Australian standards.
- Replace or repair defective equipment before commencing work.

1.8. Determine competency requirements for all workers to perform specified work and arrange for training, where applicable, in accordance with WHS procedures.

- Assess workers' qualifications for tasks involving RCS.
- Arrange training on RCS hazards, control measures, and emergency responses.
- Provide RPE fit testing training sessions.
- Maintain training records and certifications for all workers.

- Review competencies periodically, providing refresher courses as needed.

1.9. Prepare details and records for briefings and ongoing workplace communication protocols, including management of contingencies, for duration of project.

- Schedule pre-start briefings addressing RCS risks and control measures.
- Establish communication protocols for reporting RCS-related incidents.
- Maintain detailed records of all workplace briefings.
- Develop contingency plans for equipment failure or emergency RCS exposure.
- Update communication strategies based on project progress and changes.

Assessment Criteria:

- 1.1. Checked work or design requirements and workplace environment to determine level of exposure to RCS from work activity, so far as reasonably practical, in accordance with WHS procedures and manufacturer instructions.
- 1.2. Checked if air monitoring was required and, if so, arranged air monitoring processes in accordance with WHS procedures and regulations.
- 1.3. Identified WHS requirements for working with products containing CS, including codes of practice, guidance notes, and safety data sheets (SDS), where available.
- 1.4. Checked if relevant safety documentation was available and, if not, put processes in place for its development.
- 1.5. Checked SDS or relevant technical data sheets to identify products and materials containing CS to meet work specifications and requirements.
- 1.6. Planned to implement and manage an appropriate combination of controls, so far as reasonably practical, in accordance with WHS procedures.
- 1.7. Checked serviceability of relevant plant, tools, equipment, personal protective equipment (PPE), and respiratory protective equipment (RPE) for planned workers to perform specified work, in accordance with WHS policy and procedures.
- 1.8. Determined competency requirements for all workers to perform specified work and arranged for training, where applicable, in accordance with WHS procedures.
- 1.9. Prepared details and records for briefings and ongoing workplace communication protocols, including management of contingencies, for duration of project.

Evidence:

Element 2. Conduct workplace briefings and consultations.

Assessment Task: Conduct workplace briefings and consultations.

Scenario:

You are a supervisor on a construction project that includes demolition of an existing structure dating from the 1950s and construction of a new commercial retail development. In addition to your regular supervisory duties, you must also supervise and manage your workers while they work with products and materials that generate respirable crystalline silica (RCS).

You must carry out the following in relation to the project to ensure the safety of personnel and compliance with relevant WHS and other applicable legislation.

- Planning and preparing for work.
- Conducting workplace briefings and consultation with workers and others.
- Implementing safety controls and workplace and legislative requirements.
- Managing worksite operations.
- Overseeing clean-up, maintenance and storage of work areas, plant and equipment.
- Reviewing workplace operations as part of continuous improvement processes.

Assessment Instructions:

2.1. Communicate monitoring process of work schedules, products and materials to be used and related risk control measures to all workers for safe and compliant work practices in accordance with WHS procedures.

- Outline the planned work schedule, highlighting tasks involving RCS-generating activities.
- Explain the types of products and materials containing crystalline silica being used on-site.
- Describe the control measures in place, such as wet cutting methods, extraction systems, and restricted work zones.
- Provide clear instructions on how air monitoring will be conducted and how results will be communicated.
- Reinforce the importance of following established safety procedures and adjusting work methods based on monitoring outcomes.

2.2. Confirm with all workers designated work roles and responsibilities to perform work and identify health and safety risks of products and materials containing CS.

- Clearly assign roles and responsibilities related to tasks involving RCS exposure.
- Discuss the specific risks associated with each product and material that may contain crystalline silica.
- Ensure workers understand their obligations in implementing and maintaining control measures.
- Provide opportunities for workers to ask questions and clarify their responsibilities.
- Verify that all workers acknowledge their roles in monitoring and reporting any unsafe conditions.

2.3. Consult with all workers communication and reporting protocols, including levels of responsibility and seeking authoritative advice, for working with products and materials containing CS.

- Explain the reporting process for incidents, equipment failures, or unsafe practices related to RCS exposure.

- Identify key personnel responsible for addressing RCS-related concerns and incidents.
- Establish a clear communication hierarchy for escalating issues that require management or specialist input.
- Encourage open communication by outlining available channels for raising concerns.
- Confirm workers' understanding of who to contact for technical advice on RCS controls and procedures.

2.4. Confirm with all workers the expected compliant use of PPE, RPE and safe work practices for working with products and materials containing CS in accordance with manufacturer instructions and WHS procedures.

- Demonstrate the correct use, fitting, and adjustment of PPE and RPE required for tasks involving RCS.
- Provide manufacturer instructions for all PPE and RPE, explaining key compliance points.
- Outline safe work practices, such as correct handling techniques and decontamination procedures.
- Observe workers during practical demonstrations to ensure correct use of protective equipment.
- Require workers to confirm understanding of the maintenance and storage procedures for PPE and RPE.

2.5. Confirm with all workers where RPE fit testing is required and their responsibilities to ensure fit checking of RPE in accordance with manufacturer instructions and WHS procedures.

- Identify tasks and roles that require RPE fit testing before work begins.
- Arrange for appropriate fit testing sessions, ensuring all workers complete the process.
- Provide instructions on how to conduct daily fit checks before use.
- Monitor workers during fit checks to ensure compliance with manufacturer and WHS guidelines.
- Document fit test results and maintain records for verification and future reference.

Assessment Criteria:

- 2.1. Communicated monitoring process of work schedules, products, and materials to be used, and related risk control measures to all workers for safe and compliant work practices in accordance with WHS procedures.
- 2.2. Confirmed with all workers their designated work roles and responsibilities to perform work and identified health and safety risks of products and materials containing CS.
- 2.3. Consulted with all workers on communication and reporting protocols, including levels of responsibility and seeking authoritative advice, for working with products and materials containing CS.
- 2.4. Confirmed with all workers the expected compliant use of PPE, RPE, and safe work practices for working with products and materials containing CS in accordance with manufacturer instructions and WHS procedures.
- 2.5. Confirmed with all workers where RPE fit testing was required and their responsibilities to ensure fit checking of RPE in accordance with manufacturer instructions and WHS procedures.

Evidence:

Element 3. Implement safety requirements.

Assessment Task: Implement safety requirements.

Scenario:

You are a supervisor on a construction project that includes demolition of an existing structure dating from the 1950s and construction of a new commercial retail development. In addition to your regular supervisory duties, you must also supervise and manage your workers while they work with products and materials that generate respirable crystalline silica (RCS).

You must carry out the following in relation to the project to ensure the safety of personnel and compliance with relevant WHS and other applicable legislation.

- Planning and preparing for work.
- Conducting workplace briefings and consultation with workers and others.
- Implementing safety controls and workplace and legislative requirements.
- Managing worksite operations.
- Overseeing clean-up, maintenance and storage of work areas, plant and equipment.
- Reviewing workplace operations as part of continuous improvement processes.

Assessment Instructions:

3.1. Develop and implement relevant safety documentation for work activity, where required.

- Create or update safe work method statements (SWMS) specific to RCS-generating activities.
- Develop risk assessments outlining potential exposure points and corresponding control measures.
- Incorporate manufacturer instructions, WHS regulations, and codes of practice into safety plans.
- Distribute safety documentation to workers and ensure accessibility on-site.
- Review and adjust safety documentation regularly based on changes in work activities or conditions.

3.2. Assign and confirm worker roles and responsibilities to perform work activity to ensure workers are appropriately trained on RPE use, fit checking, maintenance, serviceability and storage in accordance with manufacturer instructions and WHS procedures.

- Allocate roles based on workers' qualifications and previous RPE training.
- Conduct briefings on RPE use, including donning, doffing, and storage procedures.
- Provide practical demonstrations of fit-checking methods and monitor workers' application.
- Arrange refresher training sessions on RPE maintenance and serviceability checks.
- Maintain records of training and competency for all workers assigned to RCS-related tasks.

3.3. Check plant, tools and equipment comply with workplace safety requirements and dust capture and extraction, suppression and management.

- Inspect dust suppression tools, such as water delivery systems, for functionality.
- Confirm dust extraction equipment, like on-tool extraction systems, meet WHS standards.
- Ensure plant and equipment maintenance logs are current and compliant.

- Test dust control systems before starting tasks and document the results.
- Remove or repair non-compliant equipment prior to use.

3.4. Apply appropriate combination of control measures in accordance with duration of work activity.

- Implement engineering controls, including enclosed work areas and local exhaust ventilation.
- Apply administrative controls such as job rotation and restricted work zones to limit exposure time.
- Provide RPE suited to the exposure level expected for the work's duration.
- Adjust control measures based on task duration, ensuring extended tasks have higher levels of control.
- Monitor the effectiveness of control measures and adapt them as necessary during work progression.

3.5. Check selection of correct RPE for work activity and conduct or arrange fit testing for operators and other workers, where applicable, in accordance with manufacturer instructions.

- Match RPE specifications to the type of RCS exposure anticipated during each task.
- Verify RPE is compliant with relevant Australian standards (e.g., AS/NZS 1715 and 1716).
- Schedule and oversee fit testing for all workers required to use RPE.
- Provide guidance on daily fit checks before RPE use.
- Document fit test results and confirm that all RPE is maintained and stored correctly after use.

Assessment Criteria:

- 3.1. Developed and implemented relevant safety documentation for work activity, where required.
- 3.2. Assigned and confirmed worker roles and responsibilities to perform work activity to ensure workers were appropriately trained on RPE use, fit checking, maintenance, serviceability, and storage in accordance with manufacturer instructions and WHS procedures.
- 3.3. Checked plant, tools, and equipment to ensure compliance with workplace safety requirements and dust capture, extraction, suppression, and management.
- 3.4. Applied an appropriate combination of control measures in accordance with the duration of work activity.
- 3.5. Checked selection of correct RPE for work activity and conducted or arranged fit testing for operators and other workers, where applicable, in accordance with manufacturer instructions.

Evidence:

Element 4. Manage worksite operations.

Assessment Task: Manage worksite operations.

Scenario:

You are a supervisor on a construction project that includes demolition of an existing structure dating from the 1950s and construction of a new commercial retail development. In addition to your regular supervisory duties, you must also supervise and manage your workers while they work with products and materials that generate respirable crystalline silica (RCS).

You must carry out the following in relation to the project to ensure the safety of personnel and compliance with relevant WHS and other applicable legislation.

- Planning and preparing for work.
- Conducting workplace briefings and consultation with workers and others.
- Implementing safety controls and workplace and legislative requirements.
- Managing worksite operations.
- Overseeing clean-up, maintenance and storage of work areas, plant and equipment.
- Reviewing workplace operations as part of continuous improvement processes.

Assessment Instructions:

4.1. Confirm selection, use and serviceability of PPE and relevant RPE for the type and scope of work with all workers, in accordance with manufacturer specifications and WHS procedures.

- Select PPE and RPE appropriate for RCS risks by referencing the SDS and risk assessments.
- Verify that RPE matches assigned protection factors (APF) based on dust concentration levels.
- Conduct pre-use inspections to confirm PPE and RPE are clean, hygienic, and undamaged.
- Arrange initial and periodic fit testing for workers required to wear tight-fitting respirators.
- Ensure workers are clean-shaven where necessary to maintain the RPE seal.
- Provide manufacturer instructions for RPE maintenance, storage, and cleaning.

4.2. Monitor compliant use of plant, tools and equipment for work activities in managing RCS in accordance with WHS procedures and regulations.

- Observe workers to confirm correct use of water-suppressed tools during dust-generating tasks.
- Inspect LEV systems to verify attachment and functioning during operations.
- Confirm that industrial-rated vacuums (M or H class) are used for cleaning surfaces and tools.
- Check maintenance logs for plant and equipment involved in dust suppression.
- Conduct regular site inspections to ensure all equipment is operated per manufacturer guidelines.

4.3. Conduct ongoing monitoring and assessment of levels of adherence to agreed safe work practices and control measures in accordance with WHS policy and procedures.

- Perform task observations to assess compliance with PPE, RPE, and dust control procedures.
- Review air monitoring results and adjust control measures if exposure levels exceed safe limits.

- Verify that housekeeping procedures, such as wet sweeping and vacuuming, are consistently followed.
- Provide real-time feedback and corrective instructions when non-compliance is observed.
- Document findings from inspections and monitoring activities for continuous improvement reviews.

4.4. Perform appropriate ongoing worksite consultations and communications to ensure compliance with agreed control measures and WHS procedures working with products and materials containing CS.

- Conduct daily toolbox talks focused on RCS risks, controls, and safe work practices.
- Engage workers during field observations to discuss control measures and equipment usage.
- Ask workers to demonstrate RPE fitting procedures and correct operation of dust suppression tools.
- Establish clear reporting channels for raising safety concerns related to RCS exposure.
- Record consultation outcomes and action items, updating workers on any procedural changes.

4.5. Apply appropriate escalation processes where control measures or mitigation strategies are deemed to be ineffective or compromised and/or beyond scope of supervisor in accordance with WHS policy and procedures.

- Identify control failures through observations, air monitoring data, and worker feedback.
- Halt work immediately when controls are ineffective and exposure risks are elevated.
- Notify higher-level management or WHS specialists when adjustments exceed supervisory authority.
- Record incidents of control failure and the steps taken to address them.
- Arrange for reassessment of risk controls by qualified personnel and implement revised strategies.
- Communicate updated control measures to all workers before resuming operations.

4.6. Coordinate relevant manufacturers, suppliers, installers and relevant other trades in accordance with work schedule(s), product and material use and relevant risk control measures.

- Provide manufacturers and suppliers with detailed risk control requirements for RCS-related deliveries.
- Schedule tasks involving RCS-generating activities to avoid overlapping with other trades.
- Conduct on-site inductions for external trades, focusing on RCS risks and control measures.
- Confirm that installers follow dust suppression and extraction methods during work.
- Maintain regular communication with all parties to adjust timelines and safety plans when required.
- Document all coordination activities, including confirmations of compliance with safety requirements.

4.7. Manage work practice adjustments and risk control contingencies due to varying work conditions in accordance with WHS policies and procedures.

- Continuously monitor worksite conditions, such as weather and dust levels, that may impact control measures.
- Adjust work practices by introducing additional RPE or engineering controls during high-risk periods.

- Implement contingency plans, including portable HEPA-filtered extraction units, when primary controls fail.
- Brief workers on any operational changes and updated safety procedures in real-time.
- Conduct emergency shutdowns if dust concentrations exceed safe exposure limits.
- Review the effectiveness of adjusted practices and document findings for continuous improvement.

Assessment Criteria:

- 4.1. Confirmed selection, use, and serviceability of PPE and relevant RPE for the type and scope of work with all workers, in accordance with manufacturer specifications and WHS procedures.
- 4.2. Monitored compliant use of plant, tools, and equipment for work activities in managing RCS in accordance with WHS procedures and regulations.
- 4.3. Conducted ongoing monitoring and assessment of levels of adherence to agreed safe work practices and control measures in accordance with WHS policy and procedures.
- 4.4. Performed appropriate ongoing worksite consultations and communications to ensure compliance with agreed control measures and WHS procedures when working with products and materials containing CS.
- 4.5. Applied appropriate escalation processes where control measures or mitigation strategies were deemed ineffective, compromised, and/or beyond the scope of the supervisor in accordance with WHS policy and procedures.
- 4.6. Coordinated relevant manufacturers, suppliers, installers, and other relevant trades in accordance with work schedules, product and material use, and relevant risk control measures.
- 4.7. Managed work practice adjustments and risk control contingencies due to varying work conditions in accordance with WHS policies and procedures.

Evidence:

Element 5. Oversee compliant clean-up, maintenance and storage operations.

Assessment Task: Oversee compliant clean-up, maintenance and storage operations.

Scenario:

You are a supervisor on a construction project that includes demolition of an existing structure dating from the 1950s and construction of a new commercial retail development. In addition to your regular supervisory duties, you must also supervise and manage your workers while they work with products and materials that generate respirable crystalline silica (RCS).

You must carry out the following in relation to the project to ensure the safety of personnel and compliance with relevant WHS and other applicable legislation.

- Planning and preparing for work.
- Conducting workplace briefings and consultation with workers and others.
- Implementing safety controls and workplace and legislative requirements.
- Managing worksite operations.
- Overseeing clean-up, maintenance and storage of work areas, plant and equipment.
- Reviewing workplace operations as part of continuous improvement processes.

Assessment Instructions:

5.1. Check completion of clean-up of work area plant, tools, equipment and PPE is performed and dust and slurry disposal complies with WHS policies and procedures.

- Inspect work areas to confirm all dust and slurry have been removed using approved methods such as wet sweeping or H class vacuuming.
- Verify that waste, including dust and slurry, is disposed of in sealed containers and designated disposal points in line with WHS policies.
- Confirm that tools and equipment have been cleaned using dust-free methods, avoiding dry brushing or compressed air.
- Observe workers cleaning PPE, ensuring procedures prevent secondary dust exposure.
- Review waste disposal records to ensure they meet regulatory requirements.
- Document final inspection outcomes and address any non-compliances immediately.

5.2. Check RPE is appropriately cleaned, maintenance and storage requirements are performed in accordance with manufacturer instructions.

- Observe the cleaning of RPE, ensuring correct use of cleaning agents and drying processes recommended by the manufacturer.
- Inspect RPE components for signs of wear, damage, or contamination requiring repair or replacement.
- Verify that all RPE is stored in clean, dry, and sealed storage areas to prevent contamination between uses.
- Review maintenance records to confirm regular inspections and servicing schedules are met.
- Conduct random checks to ensure workers perform pre-use inspections and storage after shifts.
- Record all maintenance and storage activities for compliance verification and future audits.

Assessment Criteria:

- 5.1. Checked completion of clean-up of work area, plant, tools, equipment, and PPE was performed and ensured dust and slurry disposal complied with WHS policies and procedures.
- 5.2. Checked RPE was appropriately cleaned, and maintenance and storage requirements were performed in accordance with manufacturer instructions.

Evidence:

Element 6. Review workplace operations.

Assessment Task: Review workplace operations.

Scenario:

You are a supervisor on a construction project that includes demolition of an existing structure dating from the 1950s and construction of a new commercial retail development. In addition to your regular supervisory duties, you must also supervise and manage your workers while they work with products and materials that generate respirable crystalline silica (RCS).

You must carry out the following in relation to the project to ensure the safety of personnel and compliance with relevant WHS and other applicable legislation.

- Planning and preparing for work.
- Conducting workplace briefings and consultation with workers and others.
- Implementing safety controls and workplace and legislative requirements.
- Managing worksite operations.
- Overseeing clean-up, maintenance and storage of work areas, plant and equipment.
- Reviewing workplace operations as part of continuous improvement processes.

Assessment Instructions:

6.1. Review applied work practices with products and materials containing CS for compliance with WHS procedures, employee health and safety and relevant regulatory requirements.

- Conduct site inspections to observe worker practices when handling materials containing crystalline silica.
- Review adherence to safe work method statements (SWMS) and ensure alignment with WHS procedures.
- Interview workers to confirm understanding and application of control measures.
- Examine work logs and task completion records to identify any deviations from planned procedures.
- Compare observed practices with current regulatory standards and workplace safety policies.
- Document any identified non-compliances and implement corrective actions.

6.2. Assess effectiveness of applied control measures in managing exposure of risk during workplace operations.

- Analyse air monitoring results against workplace exposure standards for respirable crystalline silica.
- Observe the operational performance of dust suppression systems, such as water sprays and extraction units.
- Conduct reviews of RPE fit-testing records to ensure ongoing suitability.
- Identify tasks or areas where exposure levels remain high and reassess implemented controls.
- Engage workers in feedback sessions to gather insights on control measure performance.
- Adjust and refine control strategies based on monitoring data and worker feedback.

6.3. Assess the serviceability and effectiveness of the PPE, including RPE used in mitigating exposure risk for duration of work.

- Inspect PPE and RPE for signs of wear, damage, or degradation that may compromise protection.
- Verify that RPE provided to workers remains appropriate for current exposure risks.
- Review maintenance and service records to ensure compliance with manufacturer recommendations.
- Confirm workers consistently perform fit checks before each use and follow required storage practices.
- Conduct random spot checks during shifts to observe correct use of PPE and RPE.
- Record findings and replace or service equipment that does not meet safety standards.

6.4. Record, report and recommend for implementation compliance findings in accordance with workplace continuous improvement processes and requirements.

- Compile detailed reports summarising compliance review outcomes, highlighting areas of concern.
- Provide actionable recommendations for improving work practices and enhancing control measures.
- Submit compliance reports to site management and WHS representatives for review.
- Facilitate follow-up meetings to discuss findings and proposed improvements with key stakeholders.
- Implement approved recommendations and monitor their effectiveness in subsequent operations.
- Maintain records of all compliance activities to support future audits and reviews.

6.5. Record, store and report relevant air monitoring and worker health monitoring reports in accordance with WHS legislation requirements and WHS procedures.

- Collect air monitoring results and ensure they are accurately recorded in workplace systems.
- Verify that health monitoring reports, including medical examinations, are updated and stored securely.
- Ensure all monitoring records comply with legislative requirements for retention and confidentiality.
- Provide summary reports to relevant WHS authorities where required by regulations.
- Schedule regular reviews of health and air monitoring data to identify emerging risks.
- Maintain clear records of all communications related to health and exposure monitoring.

Assessment Criteria:

- 6.1. Reviewed applied work practices with products and materials containing CS for compliance with WHS procedures, employee health and safety, and relevant regulatory requirements.
- 6.2. Assessed effectiveness of applied control measures in managing exposure risk during workplace operations.
- 6.3. Assessed the serviceability and effectiveness of the PPE, including RPE used in mitigating exposure risk for duration of work.
- 6.4. Recorded, reported, and recommended for implementation compliance findings in accordance with workplace continuous improvement processes and requirements.
- 6.5. Recorded, stored, and reported relevant air monitoring and worker health monitoring reports in accordance with WHS legislation requirements and WHS procedures.

Evidence:

Performance Criteria Assessment Outcome

Unit of Competency	Outcome	Feedback
CPCSIL4001 - Supervise and manage work with products and materials generating respirable crystalline silica	Satisfactory <input type="checkbox"/> Not Yet Satisfactory <input type="checkbox"/>	

Elements and Performance Criteria

Practical Assessment.

Example Scenario. RTO to confirm suitability in context of Assessment Conditions and Learners.

Assessment Task: Supervise and manage work with products and materials generating respirable crystalline silica

Scenario:

You are a supervisor on a construction project that includes demolition of an existing structure dating from the 1950s and construction of a new commercial retail development. In addition to your regular supervisory duties, you must also supervise and manage your workers while they work with products and materials that generate respirable crystalline silica (RCS).

You must carry out the following in relation to the project to ensure the safety of personnel and compliance with relevant WHS and other applicable legislation.

- Planning and preparing for work.
- Conducting workplace briefings and consultation with workers and others.
- Implementing safety controls and workplace and legislative requirements.
- Managing worksite operations.
- Overseeing clean-up, maintenance and storage of work areas, plant and equipment.
- Reviewing workplace operations as part of continuous improvement processes.

Assessment Instructions:

1.1. Check work or design requirements and workplace environment to determine level of exposure to RCS from work activity, so far as reasonably practical, in accordance with WHS procedures and manufacturer instructions.

1.2. Check if air monitoring is required and if so, arrange air monitoring processes in accordance with WHS procedures and regulations.

1.3. Identify WHS requirements for working with products containing CS, including codes of practice, guidance notes and safety data sheets (SDS), where available.

1.4. Check if relevant safety documentation is available and, if not, put processes in place for its development.

1.5. Check SDS or relevant technical data sheets to identify products and materials containing CS to meet work specifications and requirements.

1.6. Plan to implement and manage appropriate combination of controls, so far as reasonably practical, in accordance with WHS procedures.

1.7. Check serviceability of relevant plant, tools, equipment, personal protective equipment (PPE) and respiratory protective equipment (RPE) for planned workers, to perform specified work, in accordance with WHS policy and procedures.

1.8. Determine competency requirements for all workers to perform specified work and arrange for training, where applicable, in accordance with WHS procedures.

1.9. Prepare details and records for briefings and ongoing workplace communication procedures, including management of contingencies, for duration of project.

2.1. Communicate monitoring process of work schedules, products and materials to be used and related risk control measures to all workers for safe and compliant work practices in accordance with WHS procedures.

- 2.2. Confirm with all workers designated work roles and responsibilities to perform work and identify health and safety risks of products and materials containing CS.
 - 2.3. Consult with all workers communication and reporting procedures, including levels of responsibility and seeking authoritative advice, for working with products and materials containing CS.
 - 2.4. Confirm with all workers the expected compliant use of PPE, RPE and safe work practices for working with products and materials containing CS in accordance with manufacturer instructions and WHS procedures.
 - 2.5. Confirm with all workers where RPE fit testing is required and their responsibilities to ensure fit checking of RPE in accordance with manufacturer instructions and WHS procedures.
- 3.1. Develop and implement relevant safety documentation for work activity, where required.
 - 3.2. Assign and confirm worker roles and responsibilities to perform work activity to ensure workers are appropriately trained on RPE use, fit checking, maintenance, serviceability and storage in accordance with manufacturer instructions and WHS procedures.
 - 3.3. Check plant, tools and equipment comply with workplace safety requirements and dust capture and extraction, suppression and management.
 - 3.4. Apply appropriate combination of control measures in accordance with duration of work activity.
 - 3.5. Check selection of correct RPE for work activity and conduct or arrange fit testing for operators and other workers, where applicable, in accordance with manufacturer instructions.
- 4.1. Confirm selection, use and serviceability of PPE and relevant RPE for the type and scope of work with all workers, in accordance with manufacturer specifications and WHS procedures.
 - 4.2. Monitor compliant use of plant, tools and equipment for work activities in managing RCS in accordance with WHS procedures and regulations.
 - 4.3. Conduct ongoing monitoring and assessment of levels of adherence to agreed safe work practices and control measures in accordance with WHS policy and procedures.
 - 4.4. Perform appropriate ongoing worksite consultations and communications to ensure compliance with agreed control measures and WHS procedures working with products and materials containing CS.
 - 4.5. Apply appropriate escalation processes where control measures or mitigation strategies are deemed to be ineffective or compromised and/or beyond scope of supervisor in accordance with WHS policy and procedures.
 - 4.6. Coordinate relevant manufacturers, suppliers, installers and relevant other trades in accordance with work schedule(s), product and material use and relevant risk control measures.
 - 4.7. Manage work practice adjustments and risk control contingencies due to varying work conditions in accordance with WHS policies and procedures.
- 5.1. Check completion of clean-up of work area plant, tools, equipment and PPE is performed and dust and slurry disposal complies with WHS policies and procedures.
 - 5.2. Check RPE is appropriately cleaned, maintenance and storage requirements are performed in accordance with manufacturer instructions.
- 6.1. Review applied work practices with products and materials containing CS for compliance with WHS procedures, employee health and safety and relevant regulatory requirements.
 - 6.2. Assess effectiveness of applied control measures in managing exposure of risk during workplace operations.
 - 6.3. Assess the serviceability and effectiveness of the PPE, including RPE used in mitigating exposure risk for duration of work.
 - 6.4. Record, report and recommend for implementation compliance findings in accordance with workplace continuous improvement processes and requirements.

6.5. Record, store and report relevant air monitoring and worker health monitoring reports in accordance with WHS legislation requirements and WHS procedures.

Observation Checklist

Assessor Evidence Guide. Evidence should demonstrate the candidate can perform the following.

Performance Criteria	Assessment Evidence Gathered or Observed	Satisfactory	Not Yet Satisfactory
1.1. Check work or design requirements and workplace environment to determine level of exposure to RCS from work activity, so far as reasonably practical, in accordance with WHS procedures and manufacturer instructions.		<input type="checkbox"/>	<input type="checkbox"/>
1.2. Check if air monitoring is required and if so, arrange air monitoring processes in accordance with WHS procedures and regulations.		<input type="checkbox"/>	<input type="checkbox"/>
1.3. Identify WHS requirements for working with products containing CS, including codes of practice, guidance notes and safety data sheets (SDS), where available.		<input type="checkbox"/>	<input type="checkbox"/>
1.4. Check if relevant safety documentation is available and, if not, put processes in place for its development.		<input type="checkbox"/>	<input type="checkbox"/>
1.5. Check SDS or relevant technical data sheets to identify products and materials containing CS to meet work specifications and requirements.		<input type="checkbox"/>	<input type="checkbox"/>
1.6. Plan to implement and manage appropriate combination of controls, so far as reasonably practical, in accordance with WHS procedures.		<input type="checkbox"/>	<input type="checkbox"/>
1.7. Check serviceability of relevant plant, tools, equipment, personal protective equipment (PPE) and respiratory protective equipment (RPE) for planned workers, to perform specified work, in accordance with WHS policy and procedures.		<input type="checkbox"/>	<input type="checkbox"/>
1.8. Determine competency requirements for all workers to perform specified work and arrange for training, where applicable, in accordance with WHS procedures.		<input type="checkbox"/>	<input type="checkbox"/>

1.9. Prepare details and records for briefings and ongoing workplace communication protocols, including management of contingencies, for duration of project.		<input type="checkbox"/>	<input type="checkbox"/>
2.1. Communicate monitoring process of work schedules, products and materials to be used and related risk control measures to all workers for safe and compliant work practices in accordance with WHS procedures.		<input type="checkbox"/>	<input type="checkbox"/>
2.2. Confirm with all workers designated work roles and responsibilities to perform work and identify health and safety risks of products and materials containing CS.		<input type="checkbox"/>	<input type="checkbox"/>
2.3. Consult with all workers communication and reporting protocols, including levels of responsibility and seeking authoritative advice, for working with products and materials containing CS.		<input type="checkbox"/>	<input type="checkbox"/>
2.4. Confirm with all workers the expected compliant use of PPE, RPE and safe work practices for working with products and materials containing CS in accordance with manufacturer instructions and WHS procedures.		<input type="checkbox"/>	<input type="checkbox"/>
2.5. Confirm with all workers where RPE fit testing is required and their responsibilities to ensure fit checking of RPE in accordance with manufacturer instructions and WHS procedures.		<input type="checkbox"/>	<input type="checkbox"/>
3.1. Develop and implement relevant safety documentation for work activity, where required.		<input type="checkbox"/>	<input type="checkbox"/>
3.2. Assign and confirm worker roles and responsibilities to perform work activity to ensure workers are appropriately trained on RPE use, fit checking, maintenance, serviceability and storage in accordance with manufacturer instructions and WHS procedures.		<input type="checkbox"/>	<input type="checkbox"/>

3.3. Check plant, tools and equipment comply with workplace safety requirements and dust capture and extraction, suppression and management.		<input type="checkbox"/>	<input type="checkbox"/>
3.4. Apply appropriate combination of control measures in accordance with duration of work activity.		<input type="checkbox"/>	<input type="checkbox"/>
3.5. Check selection of correct RPE for work activity and conduct or arrange fit testing for operators and other workers, where applicable, in accordance with manufacturer instructions.		<input type="checkbox"/>	<input type="checkbox"/>
4.1. Confirm selection, use and serviceability of PPE and relevant RPE for the type and scope of work with all workers, in accordance with manufacturer specifications and WHS procedures.		<input type="checkbox"/>	<input type="checkbox"/>
4.2. Monitor compliant use of plant, tools and equipment for work activities in managing RCS in accordance with WHS procedures and regulations.		<input type="checkbox"/>	<input type="checkbox"/>
4.3. Conduct ongoing monitoring and assessment of levels of adherence to agreed safe work practices and control measures in accordance with WHS policy and procedures.		<input type="checkbox"/>	<input type="checkbox"/>
4.4. Perform appropriate ongoing worksite consultations and communications to ensure compliance with agreed control measures and WHS procedures working with products and materials containing CS.		<input type="checkbox"/>	<input type="checkbox"/>
4.5. Apply appropriate escalation processes where control measures or mitigation strategies are deemed to be ineffective or compromised and/or beyond scope of supervisor in accordance with WHS policy and procedures.		<input type="checkbox"/>	<input type="checkbox"/>
4.6. Coordinate relevant manufacturers, suppliers, installers and relevant other trades in accordance with work schedule(s), product and material use and relevant risk control measures.		<input type="checkbox"/>	<input type="checkbox"/>

4.7. Manage work practice adjustments and risk control contingencies due to varying work conditions in accordance with WHS policies and procedures.		<input type="checkbox"/>	<input type="checkbox"/>
5.1. Check completion of clean-up of work area plant, tools, equipment and PPE is performed and dust and slurry disposal complies with WHS policies and procedures.		<input type="checkbox"/>	<input type="checkbox"/>
5.2. Check RPE is appropriately cleaned, maintenance and storage requirements are performed in accordance with manufacturer instructions.		<input type="checkbox"/>	<input type="checkbox"/>
6.1. Review applied work practices with products and materials containing CS for compliance with WHS procedures, employee health and safety and relevant regulatory requirements.		<input type="checkbox"/>	<input type="checkbox"/>
6.2. Assess effectiveness of applied control measures in managing exposure of risk during workplace operations.		<input type="checkbox"/>	<input type="checkbox"/>
6.3. Assess the serviceability and effectiveness of the PPE, including RPE used in mitigating exposure risk for duration of work.		<input type="checkbox"/>	<input type="checkbox"/>
6.4. Record, report and recommend for implementation compliance findings in accordance with workplace continuous improvement processes and requirements.		<input type="checkbox"/>	<input type="checkbox"/>
6.5. Record, store and report relevant air monitoring and worker health monitoring reports in accordance with WHS legislation requirements and WHS procedures.		<input type="checkbox"/>	<input type="checkbox"/>

Performance Criteria Assessment Outcome

Unit of Competency	Outcome	Feedback
CPCSIL4001 - Supervise and manage work with products and materials generating respirable crystalline silica	Satisfactory <input type="checkbox"/> Not Yet Satisfactory <input type="checkbox"/>	

Performance Evidence

Observation Checklist

Assessor Evidence Guide. Evidence should demonstrate the candidate can perform the following.

Performance Evidence	Assessment Evidence Gathered or Observed	Satisfactory	Not Yet Satisfactory
A person demonstrating competency in this unit must satisfy the requirements of the elements, performance criteria and foundation skills of this unit in addition to the specific performance and knowledge evidence described below.		<input type="checkbox"/>	<input type="checkbox"/>
Candidates must be able to:		<input type="checkbox"/>	<input type="checkbox"/>
select and supervise the application of a combination of control measures for three different work activities, such as cutting, drilling or grinding on products or materials containing crystalline silica (CS).		<input type="checkbox"/>	<input type="checkbox"/>
In doing so, the candidate must:		<input type="checkbox"/>	<input type="checkbox"/>
demonstrate compliance with selection and use of respiratory protective equipment (RPE) for all workers for the work activity		<input type="checkbox"/>	<input type="checkbox"/>
verify fit checking of RPE, training for staff in the use, maintenance and storage of RPE		<input type="checkbox"/>	<input type="checkbox"/>
verify setup, use and maintenance of plant, tools and equipment with selected control measures.		<input type="checkbox"/>	<input type="checkbox"/>

Performance Evidence Assessment Outcome

Unit of Competency	Outcome	Feedback
CPCSIL4001 - Supervise and manage work with products and materials generating respirable crystalline silica	Satisfactory <input type="checkbox"/> Not Yet Satisfactory <input type="checkbox"/>	

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency. No additional assessment is required.